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(54) DATA MANAGEMENT SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To make a check when data are written to and read out of a specifications DB with verification data by using a specifications data registering means and a specifications data verifying means, and inform a user that the data are altered in such a case.

SOLUTION: Specifications data transferred from a specifications data generation request module 111 are received by a specifications data generation module 112. For new registration to the specification DB 211, the data are passed to a specifications DB update module 101. The module 101 passes the data to the signature module 102 and on the basis of the verification data, signature data are generated and registered in the DB 211 together with the specifications data. When the data are altered, it is checked

whether or not alterations are made and registration to the DB 211 is done. Then a specifications data key to be retrieved which is transferred from a specifications data retrieval request module 121 is received by a retrieval module 122 and passed to a DB retrieval module 131. The module 131 acquires the specifications data and signature data, checks alterations by using the verification data, and passes the data to the module 121.

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CLAIMS

[Claim(s)]

[Claim 1] The signature data which enciphered information data and these information data in the network system, The identity data used as the code key at the time of creating the above-mentioned signature data, and two or more computers which are connected to the above-mentioned network and have the common above-mentioned encryption means, It *****, and at the time of transmission of the above-mentioned information data, the above-mentioned signature data and the above-mentioned identity data are added, and it transmits to these information data at it. At the time of reception of the above-mentioned information data The data management system characterized by what the above-mentioned information data are verified for by enciphering with an encryption means common to the above of the above-mentioned information data, and comparing the signature data and identity data which were generated with the above-mentioned signature data and identity data which were received.

[Claim 2] The database which stores data and the signature data which decide the data to be a meaning, A data registration means to register said data and said signature data to said database, The verification data file which stores the identity data (code key) which consists of a password with which only the data origination person ID who decides on a meaning, and the data origination person know the data origination person, The data verification means for verifying whether there is any alteration in the data registered into said database using said identity data, The data management system characterized by having the client machine equipped with the ***** server machine, a data origination means to perform creation of said data, and a data retrieval means to perform retrieval of said data.

[Claim 3] The specification database which stores the signature data which decide specification data and its specification data to be meaning, A specification data registration means to register said specification data and signature data to said specification database, The verification data file which stores the identity data for verifying whether there is any alteration in the specification data registered into said specification database, A specification data verification means to verify said

specification data using said identity data. The data management system characterized by having the client machine equipped with the ***** server machine, a specification data origination means to perform creation of said specification data, and a specification data retrieval means to perform retrieval of said specification data.

[Claim 4] The data management system according to claim 3 characterized by to have the specification data-origination side server machine equipped with a specification data transfer means transmit said specification data to a specification data utilization side server machine, said specification data-transfer means and said specification database, said specification data registration means, said verification data file, the specification data utilization side server machine equipped with the specification data-verification means and the specification data retrieval means, and the specification data utilization side client machine equipped with said specification data retrieval means.

[Claim 5] The data management system according to claim 3 characterized by having the specification data utilization side server machine equipped with the specification data origination side server machine equipped with the identity data registration means for changing the identity data registered into said verification data file, and an identity data distribution means to transmit said identity data to a specification data utilization side server machine, said verification data transfer means, and said verification data file.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the managerial system of the specification data at the time of carrying out a design and manufacture of a product to the information data treated between networks especially about the data management system which verifies whether there is any alteration.

[0002]

[Description of the Prior Art] Although it is common to store various information in a database and to manage it conventionally, in the so-called open system through a network, anyone can access to a database. In order to restrict access to a database to the database which has specification data at the time of especially an informational security protection designing and manufacturing a required product, the approach which performs access restriction to the machine which has a database, or has restricted access to a database enough within a machine, and is carried out is common. In this case, the user name and password which can use a machine or a database are used.

[0003] When using specification data in a remote place, a specification data transfer is needed from a specification data origination side to a specification data utilization side. Even if inaccurate data are sent to a specification data utilization side at this time, the whole (specification data file) specification data which should be transmitted is enciphered, and a specification data file and encryption data are sent to a specification data utilization side so that it may turn out that it is inaccurate. The code key used at the time of encryption is beforehand sent to the specification data utilization side by another root, and the justification of a specification data file is checked using a specification data file, encryption data, and a code key. Moreover, a direct command is published and changed on a specification data origination side server machine to change a code key. For this reason, opening the access privilege to a specification data origination side server machine to a broad user, or requesting modification of a code key to the manager of said server machine is indicated (well-known data name: others [Miyauchi / 'September 94 IECE, "the electronic acknowledgement technique towards an electronic document", and]).

[0004]

[Problem(s) to be Solved by the Invention] With the above-mentioned conventional technique, when a user name and a password leak to the exterior, there is a problem

of destroying or altering easily the specification data stored in the database. Especially, distinction does not attach where [of specification data] in the case of the latter, was altered, but if a design or manufacture of a product is performed based on the altered information, there is a trouble of manufacturing many defectives.

[0005] Moreover, when transmitting specification data, a specification data encryption is required, and in transmitting a mass data, there is a trouble that encryption processing takes huge time amount.

[0006] Furthermore, there is a trouble that the approach of transmitting to a specification data utilization side server machine is complicated, at the time of modification of a code key.

[0007] if the object of [object of invention] this invention carries out reading appearance to the time of the writing of the data to a specification database, and identity data is sometimes used for it, it confirms whether data are altered or not using a specification data registration means and a specification data verification means and specification data have an alteration, it is to offer the specification data management system which notifies the user of specification data of there having been an alteration.

[0008] Moreover, it is in offering the specification data management system which can transmit specification data to a specification data utilization side server machine easily from a specification data origination side server machine by using a specification data transfer means by managing specification data using a specification data registration means and a specification data verification means.

[0009] Furthermore, it is in offering the specification data management system which can perform easily modification of identity data and the verification data transfer to a specification data user server by using an identity data modification means and a verification data transfer means.

[0010]

[Means for Solving the Problem] The specification database which stores the signature data with which the specification data management system of the first invention decides specification data and its specification data to be meaning, A specification data registration means to register specification data and signature data to said specification database, The verification data file which stores the identity data for verifying whether there is any alteration in the specification data registered into the specification database, It has the client machine equipped with the server machine equipped with a specification data verification means to verify specification data using said identity data, a specification data origination means to perform creation of

specification data, and a specification data retrieval means to perform retrieval of specification data.

[0011] The specification data management system of the second invention is characterized by to have the specification data utilization side server machine equipped with the specification data-origination side server machine equipped with a specification data-transfer means transmit specification data to a specification data utilization side server machine, said specification data-transfer means, and the specification database, the specification data registration means, the verification data file, the specification data-verification means and the specification data retrieval means of the first invention, and the specification data utilization side client which have the specification data retrieval means of the first invention.

[0012] The specification data management system of the third invention is characterized by having the specification data utilization side server machine equipped with the specification data origination side server machine equipped with the identity data modification means for changing said identity data, a verification data transfer means to transmit identity data to a specification data utilization side server machine, and the verification data file of the first invention, and said verification data transfer means and said verification data file.

[0013] The description of [operation] this invention is set to a network system. Information data, The signature data which enciphered these information data, and the identity data used as the code key at the time of creating the above-mentioned signature data, It connects with the above-mentioned network and has two or more calculating machines which have the common above-mentioned encryption means. At the time of transmission of the above-mentioned information data The above-mentioned signature data and the above-mentioned identity data are added to these information data, and it transmits to them. At the time of reception of the above-mentioned information data It is in what the above-mentioned information data are verified for by enciphering with an encryption means common to the above of the above-mentioned information data, and comparing the signature data and identity data which were generated with the above-mentioned signature data and identity data which were received.

[0014] Here, signature data are a code key which consists of a password which only the data origination person ID who enciphers and creates information data, such as specification, using identity data, and decides a data origination person to be identity data at a meaning, and the data origination person know.

[0015] It is verifiable by comparing signature data with identity data, in order to verify

whether there is any alteration in information data, such as received specification, using these, and when altered, since comparing becomes inharmonious, it can verify easily.

[0016] The point that this invention differs from the conventional example is a point which does not use the machine generally used as a code key, or the user name and password at the time of database access, but is using the data of a system proper as a code key.

[0017] Thereby, this invention has the operation effectiveness that security reservation of information data, such as specification, can be raised, rather than the conventional example. Well-known encoding technology is used for the description of this invention. Moreover, specification data, The data which set specification data to a meaning using the password (it is called identity data) of a system proper independent of a password required at the time of machine access (it is called signature data), A specification data registration means to register with a database, and a specification data origination means to receive specification data from a client, A specification data verification means to verify whether there is any alteration in specification data by comparing the specification data stored in the database, signature data, and identity data, It is having a specification data retrieval means displaying the verified specification data on a client, a specification data transfer means transmitting specification data, and a verification data transfer means transmitting the identity data for verifying specification data.

The configuration of invention and a book system [of operation] have a specification data origination means, a specification data registration means, a specification data verification means, a specification data retrieval means, a specification data transfer means, and a verification data transfer means.

[0018] The registration procedure to the database of the specification data based on a specification data origination means and a specification data registration means is explained.

[0019] ** A specification data origination module receives the specification data of a transfer from a specification data origination demand module.

[0020] ** When registering newly to Specification DB, pass specification data to the renewal module of specification DB.

[0021] ** By the renewal module of specification DB, create delivery for specification data, create signature data to a signature module based on identity data, and register the signature data and specification data which were created to Specification DB together.

- [0022] When changing the specification data already registered by ** **, after checking for no alteration the specification data already registered using the specification data verification means, it progresses to processing of **.
- [0023] Next, the display procedure to an I/O device is explained to be verification of the specification data in the database by the specification data verification means and the specification data retrieval means.
- [0024] ** A specification data retrieval module receives the specification data key transmitted from the specification data retrieval demand module to search.
- [0025] ** Pass a specification data key to a specification DB retrieval module.
- [0026] ** Search Specification DB with a specification DB retrieval module based on a specification data key, and acquire specification data. At this time, signature data are obtained simultaneously.
- [0027] Specification data are checked for no alteration using delivery identity data to a verification module in the specification data obtained by ** **, and signature data.
- [0028] Specification data are passed to a specification data retrieval module when there is no alteration at ** **.
- [0029] ** Display specification data on the I/O device of a client side from a specification data retrieval module.
- [0030] The specification data transfer procedure by the specification data transfer means and the verification data transfer means is explained to the 3rd.
- [0031] ** Pass the specification data key for distribution to a specification DB retrieval module from a specification data distribution module.
- [0032] ** Pass specification data after verification to a specification data distribution module with a specification data verification means by the specification DB retrieval module.
- [0033] ** A specification data distribution module sends specification data to a specification data utilization side server.
- [0034] ** Pass the received specification data to a specification DB retrieval module by the specification data receiving module of a specification data utilization side server.
- [0035] ** Verify specification data to the processing and coincidence in a specification data origination side server.
- [0036] ** Register specification data into the processing and coincidence in a specification data origination side server to Specification DB.
- [0037] ** In addition, when the identity data in a specification data origination side server has modification, transmit the newest identity data to a specification data

utilization side server with a verification data transfer means.

[0038] According to this invention, a means to detect the unjust alteration of various information managed in a database can be offered, and informational false reports and reservation of data reliability can be performed.

[0039] Moreover, the specification data management system which can prevent the loss generated in order to prevent the design or manufacture of a product which used inaccurate data by notifying a specification data user of it and to manufacture many defectives, when it always confirms whether the specification data stored in the specification database are altered according to this invention and it is altered can be offered.

[0040] Moreover, the specification data transfer to a remote place can be performed easily. Modification of identity data and the transfer to a remote place can also be performed easily.

[0041]

[Embodiment of the Invention] Next, the gestalt of operation of this invention is explained with reference to a drawing.

[0042] Drawing 1 , drawing 4 , and drawing 6 are the block diagrams showing the configuration of the specification data management system of 1 operation gestalt of this invention.

[0043] The specification data management system of 1 operation gestalt of this invention is constituted including the specification data origination side client 1, the specification data origination side server 2, the specification data utilization side server 3, and the specification data utilization side client 4, as shown in drawing 1 , drawing 4 , and drawing 6 . Generally the specification data origination side client 1 and two or more specification data utilization side clients 4 may exist.

[0044] Between the specification data origination side client 1 and the specification data origination side server 2, it has the specification data origination means 11, the specification data retrieval means 12, and the identity data registration means 14.

[0045] The specification data origination demand module 111 and specification data which transmit the specification data which the specification data origination person created to the specification data origination module 112 were passed to the renewal module 101 of specification DB, or the specification data origination means 11 is equipped with the specification data origination module 112 which passes a specification data key to the specification DB retrieval module 131.

[0046] The specification data retrieval means 12 is equipped with the specification data retrieval module 122 which passes the specification data retrieval demand

module 121 and specification data key which transmit the specification data key which a specification data retrieval person wants to search to the specification data retrieval module 122 to the specification DB retrieval module 131, or displays specification data on the I/O device of the specification data origination side client 1. [0047] The identity data registration means 14 is equipped with the identity data registration demand module 141 which transmits modification identity data to the identity data registration module 142 with identity data modification, and the identity data registration module 142 which registers identity data into the verification data file 212.

[0048] The specification data origination side server 2 is equipped with the storage section 21 which memorizes data etc., the specification data registration means 10, and the specification data verification means 13.

[0049] The storage section 21 is equipped with the verification data file 212 which stores the identity data for creating the specification DB211 and signature data which store specification data and signature data.

[0050] For the specification data registration means 10, signature data are created based on the renewal module 101 of specification DB and specification data which pass specification data to the signature module 102, or register specification data and signature data into specification DB211 together, and the identity data of the verification data file 212. Or the renewal module 101 of specification DB is equipped with the signature module 102 which passes signature data.

[0051] For the specification data verification means 13, specification data and signature data are acquired from specification DB211 based on a specification data key, or specification data and signature data are passed to the verification module 132. Or it has the verification module 132 which checks specification data and signature data for no alteration using the specification DB retrieval module 131 which passes specification data and signature data to the specification data distribution module 221, and the identity data of the verification data file 212.

[0052] Between the specification data origination side server 2 and the specification data utilization side server 3, it has the specification data distribution means 22 and the identity data distribution means 23.

[0053] Specification data were passed to the renewal module 321 of specification DB, or the specification data distribution means 22 is equipped with the specification data receiving module 222 which passes a specification data key to the specification DB retrieval module 331, or it receives the specification data distribution module 221 and the specification data which pass the specification data key used as the object for

distribution to the specification DB retrieval module 131, or distribute specification data and signature data to the specification data receiving module 222, and signature data.

[0054] The identity data distribution means 23 is equipped with the identity data receiving module 232 which receives the identity data distribution module 231 and identity data which distribute identity data to the identity data receiving module 232 when the identity data of the verification data file 212 has modification, or registers identity data into the verification data file 312.

[0055] The specification data utilization side server 3 is equipped with the storage section 31 and the specification data registration means 32 of memorizing data etc., and the specification data verification means 33.

[0056] The storage section 31 is equipped with the verification data file 312 which stores the identity data for creating the specification DB311 and signature data which store specification data and signature data.

[0057] The specification data registration means 32 is equipped with the signature module 322 which creates signature data based on the renewal module 321 of specification DB and specification data which pass specification data to the signature module 322, or register specification data and signature data into specification DB311 together, and the identity data of the verification data file 312, or passes signature data to the renewal module 321 of specification DB.

[0058] The specification data verification means 33 is equipped with the verification module 332 which specification data and signature data are passed to the verification module 332, or checks specification data and signature data for no alteration using the specification DB retrieval module 331 which passes specification data and signature data to the specification data retrieval module 411, and the identity data of the verification data file 312 or it acquires specification data and signature data from specification DB311 based on a specification data key.

[0059] Between the specification data utilization side client 4 and the specification data utilization side server 3, it has the specification data retrieval means 41.

[0060] The specification data retrieval means 41 is equipped with the specification data retrieval module 411 with which the specification data retrieval demand module 412 and specification data key which transmit the specification data key which a specification data retrieval person wants to search to the specification data retrieval module 411 are passed to the specification DB retrieval module 331, or the I/O device of the specification data utilization side client 4 displays specification data.

[0061] Next, drawing 2 , drawing 3 , drawing 5 , and drawing 7 are processing flow

drawings of the specification data management system of the gestalt of one example of this invention.

[0062] Drawing 2 is the processing flow of the registration to the specification DB211 of the specification data which used the specification data registration means 10 and the specification data origination means 11 which are shown in drawing 1 , and the specification data verification means 13.

[0063] If processing is started, it will become the specification data origination demand (specification data transfer) waiting from the specification data origination demand module 111 (loop formation of steps 1101 and 1102), and if an implementer creates specification data and transmits specification data, the specification data origination module 112 will receive specification data (step 1103).

[0064] When the received specification data are new (YES branch of step 1104), it progresses to step 1110, and when not new (registered) (NO branch of step 1104), it progresses to step 1105.

[0065] step 1110 -- specification data are passed to the renewal module 101 of specification DB, and delivery and the renewal module 101 of specification DB pass [the specification data origination module 112] specification data to the signature module 102 (step 111).

[0066] A signature module creates signature data based on the identity data of the verification data file 212 (step 1112), and signature data are passed to the renewal module 101 of specification DB (step 1113). The renewal module 101 of specification DB registers specification data and signature data into specification DB211 (step 1114), and is completed.

[0067] At step 1105, the specification DB retrieval module 131 which delivery and the specification DB retrieval module 131 search specification DB211 for a specification data key to the specification DB retrieval module 131 based on a specification data key, and obtains specification data and signature data (step 1106) uses specification data and signature data for the verification module 132, delivery (step 1107) and a retrieval module use [the specification data-origination module 112] the identity data of the verification data file 212, and specification data are checked for no alteration (step 1108).

[0068] When there is no alteration (YES branch of step 1109), it progresses to step 1110 and processing after step 1110 is performed, and specification data and signature data are registered into specification DB211.

[0069] When there is an alteration (NO branch of step 1109), it terminates abnormally.

[0070] Thus, the alteration check of the specification data in the case of registration

can be performed to the specification DB211 of specification data by using the specification data registration means 10, the specification data origination means 11, and the specification data verification means 13.

[0071] Drawing 3 is the processing flow of the display to retrieval of the specification data in the specification DB211 which used the specification data retrieval means 12 shown in drawing 1, and the specification data verification means 13, and the I/O device of the specification data origination side client 1.

[0072] If processing is started, it will become the specification data retrieval demand (specification data key transfer) waiting from the specification data retrieval demand module 121 (loop formation of steps 1201 and 1202), and if a retrieval person transmits specification data, the specification data retrieval module 122 will receive a specification data key (step 1203), and the specification data retrieval module 122 will pass a specification data key to the specification DB retrieval module 131 (step 1204).

[0073] The specification DB retrieval module 131 searches specification DB211 based on a specification data key, and obtains specification data and signature data (step 1205).

[0074] The specification DB retrieval module 131 uses specification data and signature data for the verification module 132, delivery (step 1206) and the verification module 132 use the identity data of the verification data file 212, and specification data are checked for no alteration (step 1207).

[0075] the case (YES branch of step 1208) where there is no alteration -- specification data are displayed on the specification data retrieval module 122, delivery (step 1209) and the specification data retrieval module 122 display specification data on the I/O device of the specification data origination side client 1 (step 1210), and the specification DB retrieval module 131 is completed.

[0076] When there is an alteration (NO branch of step 1208), it terminates abnormally.

[0077] Thus, the alteration check of the specification data in the case of retrieval of specification data can be performed by using the specification data retrieval means 12 and the specification data verification means 13.

[0078] Drawing 5 is the processing flow of distribution of the specification data from the specification data origination side server 2 to the specification data utilization side server 3 which used the specification data distribution means 22 shown in drawing 4, the specification data verification means 13, the specification data verification means 33, and the specification data registration means 32, and the registration to specification DB311.

[0079] If it becomes the waiting for a specification data distribution demand (loop

formation of steps 1301 and 1302) and there is a distribution demand when processing is started, the specification data distribution module 221 will pass the specification data key for distribution to the specification DB retrieval module 131 (step 1303).

[0080] The specification DB retrieval module 131 searches specification DB211 based on a specification data key, and obtains specification data and signature data (step 1304).

[0081] The specification DB retrieval module 131 uses specification data and signature data for the verification module 132, delivery (step 1305) and the verification module 132 use the identity data of the verification data file 212, and specification data are checked for no alteration (step 1306).

[0082] the case (YES branch of step 1307) where there is no alteration -- specification data and signature data are distributed to the specification data distribution module 221, and delivery (step 1308) and the specification data distribution module 221 distribute [the specification DB retrieval module 131] specification data and signature data to the specification data utilization side server 3 (step 1309).

[0083] The specification data receiving module 222 receives specification data and signature data (step 1310), and the specification data receiving module 222 passes specification data and signature data to the specification DB retrieval module 331 (step 1311).

[0084] With the specification data verification means 33, with a specification data registration means 32 to verify specification data like processing by the specification data origination side server 2 (step 1312), specification data and signature data are registered into specification DB311 like processing by the specification data origination side server 2 (step 1313), and it ends.

[0085] When there is an alteration (NO branch of step 1308), it terminates abnormally.

[0086] Thus, the alteration check of the specification data in the case of specification data distribution can be performed by using the specification data distribution means 22, the specification data verification means 13, the specification data verification means 33, and the specification data registration means 32.

[0087] Drawing 7 is the message distribution processing flow of the identity data which used the identity data registration means 14 shown in drawing 6, and the identity data distribution means 23.

[0088] If processing is started, it will become the identity data registration demand (identity data modification) waiting from the identity data registration demand module 141 (loop formation of steps 1401 and 1402), and if registration of identity data is

performed, the identity data registration module 142 will receive identity data (step 1403), and the identity data registration module 142 will register identity data into the verification data file 212 (step 1404).

[0089] Reception (step 1405) and the identity data distribution module 231 distribute [the identity data distribution module 231] identity data for identity data to the specification data utilization side server 3 from the verification data file 212 (step 1406).

[0090] The identity data receiving module 232 receives identity data (step 1407). The identity data receiving module 232 registers identity data to the verification data file 312 (step 1408), and is completed.

[0091] Thus, identity data can be maintained at what [newest] is always the same by the specification data origination side server 2 and the specification data utilization side server 3 by using the identity data registration means 14 and the identity data distribution means 23.

[0092] As explained above, the specification data management system of this operation gestalt can secure data reliability by losing generating prevention of the system failure by inaccurate data, and informational false reports by registration of specification data, retrieval, and detection of the alteration at the time of distribution.

[0093]

[Effect of the Invention] The specification data management system which can prevent the loss generated in order to prevent the design or manufacture of a product which used inaccurate data by notifying a specification data user of it and to manufacture many defectives, when it always confirms whether the specification data stored in the specification database are altered according to this invention and it is altered can be offered.

[0094] Moreover, the specification data transfer to a remote place can be performed easily. Modification of identity data and the transfer to a remote place can also be performed easily.

[0095]

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the block diagram showing the configuration of the specification data management system of 1 operation gestalt of this invention.

[Drawing 2] It is the flow chart of the registration to the specification DB211 of the specification data which used the specification data registration means 10, the specification data origination means 11, and the specification data verification means 13.

[Drawing 3] It is a flow chart to retrieval of the specification data in the specification DB211 which used the specification data retrieval means 12 and the specification data verification means 13, and the I/O device of the specification data origination side client 1.

[Drawing 4] It is the block diagram showing the configuration of the specification data management system of 1 operation gestalt of this invention.

[Drawing 5] They are distribution of the specification data from the specification data origination side server 2 to the specification data utilization side server 3 which used the specification data distribution means 22, the specification data verification means 13, the specification data verification means 33, and the specification data registration means 32, and the flow chart of registration of specification DB311.

[Drawing 6] It is the block diagram showing the configuration of the specification data management system of 1 operation gestalt of this invention.

[Drawing 7] It is the distribution flow chart of the identity data which used the identity data modification means 14 and the identity data distribution means 23.

[Description of Notations]

- 1 Specification Data Origination Side Client
- 2 Specification Data Origination Side Server
- 3 Specification Data Utilization Side Server
- 4 Specification Data Utilization Side Client

10 Specification Data Registration Means
101 Renewal Module of Specification DB
102 Signature Module
11 Specification Data Origination Means
111 Specification Data Origination Demand Module
112 Specification Data Origination Module
12 Specification Data Retrieval Means
121 Specification Data Retrieval Demand Module
122 Specification Data Retrieval Module
13 Specification Data Verification Means
131 Specification Data Retrieval Module
132 Verification Module
14 Identity Data Registration Means
141 Identity Data Registration Demand Module
142 Identity Data Registration Module
21 Storage Section
211 Specification DB
212 Verification Data File
22 Specification Data Distribution Means
221 Specification Data Distribution Module
222 Specification Data Receiving Module
23 Identity Data Distribution Means
231 Identity Data Distribution Module
232 Identity Data Receiving Module
31 Storage Section
311 Specification DB
312 Verification Data File
32 Specification Data Registration Means
321 Renewal Module of Specification DB
322 Signature Module
33 Specification Data Verification Means
331 Specification DB Retrieval Module
332 Verification Module
41 Specification Data Retrieval Means
411 Specification Data Retrieval Module
412 Specification Data Retrieval Demand Module